



SANYO  
STEREO TURNTABLE  
TP 725UM  
SERVICE MANUAL



## SPECIFICATION

### MOTOR & TURNTABLE SECTION

Motor:	4-pole AC servo-motor
Drive System:	Belt-driven
Speeds:	33-1/3 and 45 rpm.
Wow & Flutter:	0.08%
Signal to Noise Ratio @2f:	55dB
Turntable Platter:	Diameter; 310mm Weight; 0.9 Kg
Controllable Speed Range:	±3.0%

### TONE ARM SECTION

Type:	Static Balance Type (S-shape)
Effective Arm Length:	215mm
Tracking Force Range:	1.0 to 3.5

### CARTRIDGE SECTION

Type:	Induced Magnetic (MG-28)
Frequency Response:	10 ~ 27 KHz
Channel Separation @1,000 Hz:	15dB
Output Voltage @500mm/sec:	2.0 ~ 3.8mV
Load Impedance:	50K ohm
Stylus:	0.5 mill. Diamond (ST-28D)

### MISCELLANEOUS

Power Requirement:	MV (Switchable) 120/200/220/240V 50/60 Hz SEV/FSZ 110/220V 50 Hz
Power Consumption:	10 watts
Dimension:	Wide; 452mm (approx.) Depth; 368mm (approx.) Height; 167mm (approx.)
Weight:	9.5 Kg (approx.)

## PICK-UP ARM HEIGHT ADJUSTMENT

Loosen the pick-up arm height adjusting screw (75) and adjust the height by sliding the support arm (100) and secure the screw.

## PICK-UP RAISING POSITION ADJUSTMENT (Return point)

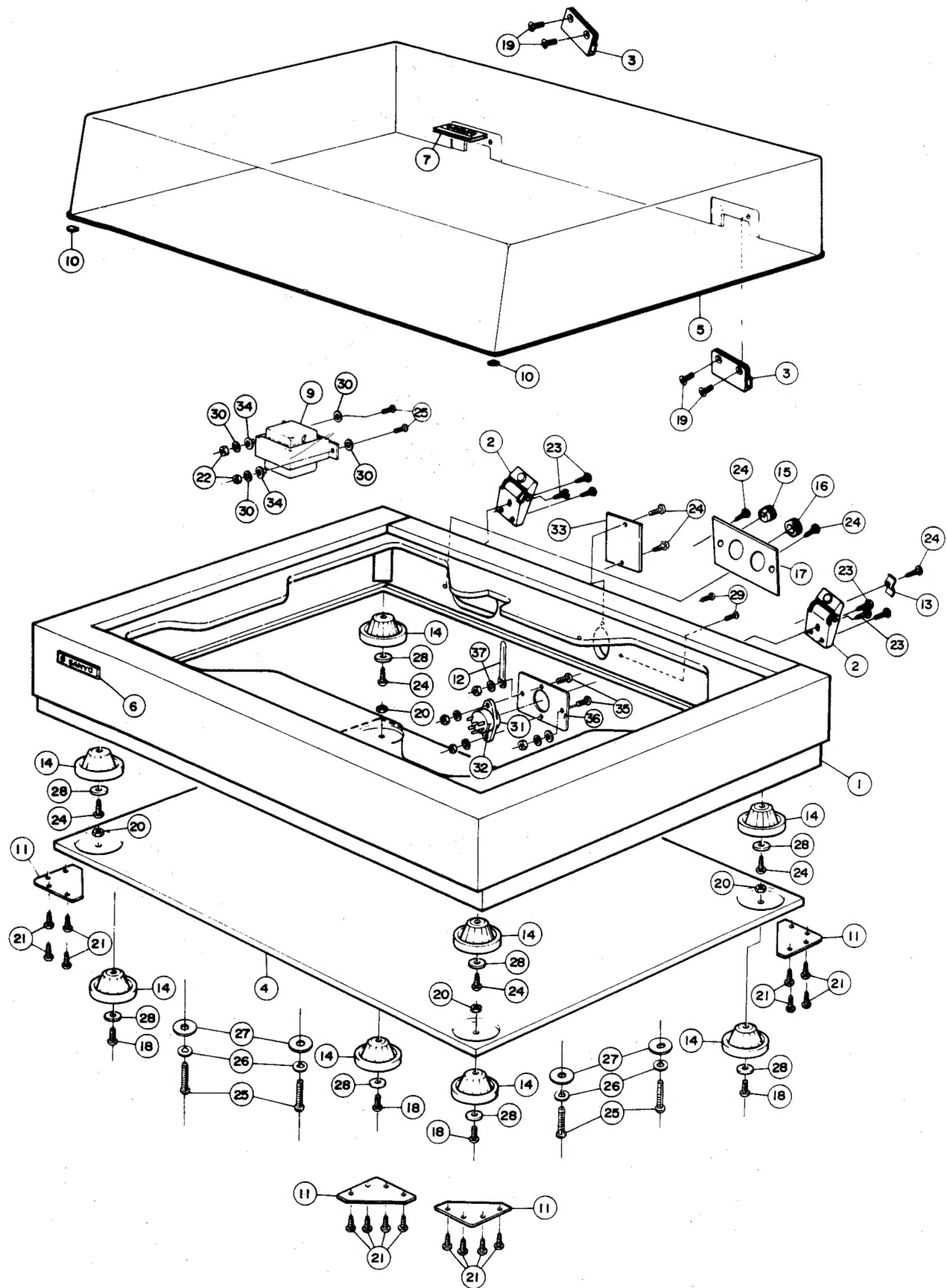
Turn screw (96) clockwise to move outwards, and counterclockwise to move inwards.

## PARTS LIST

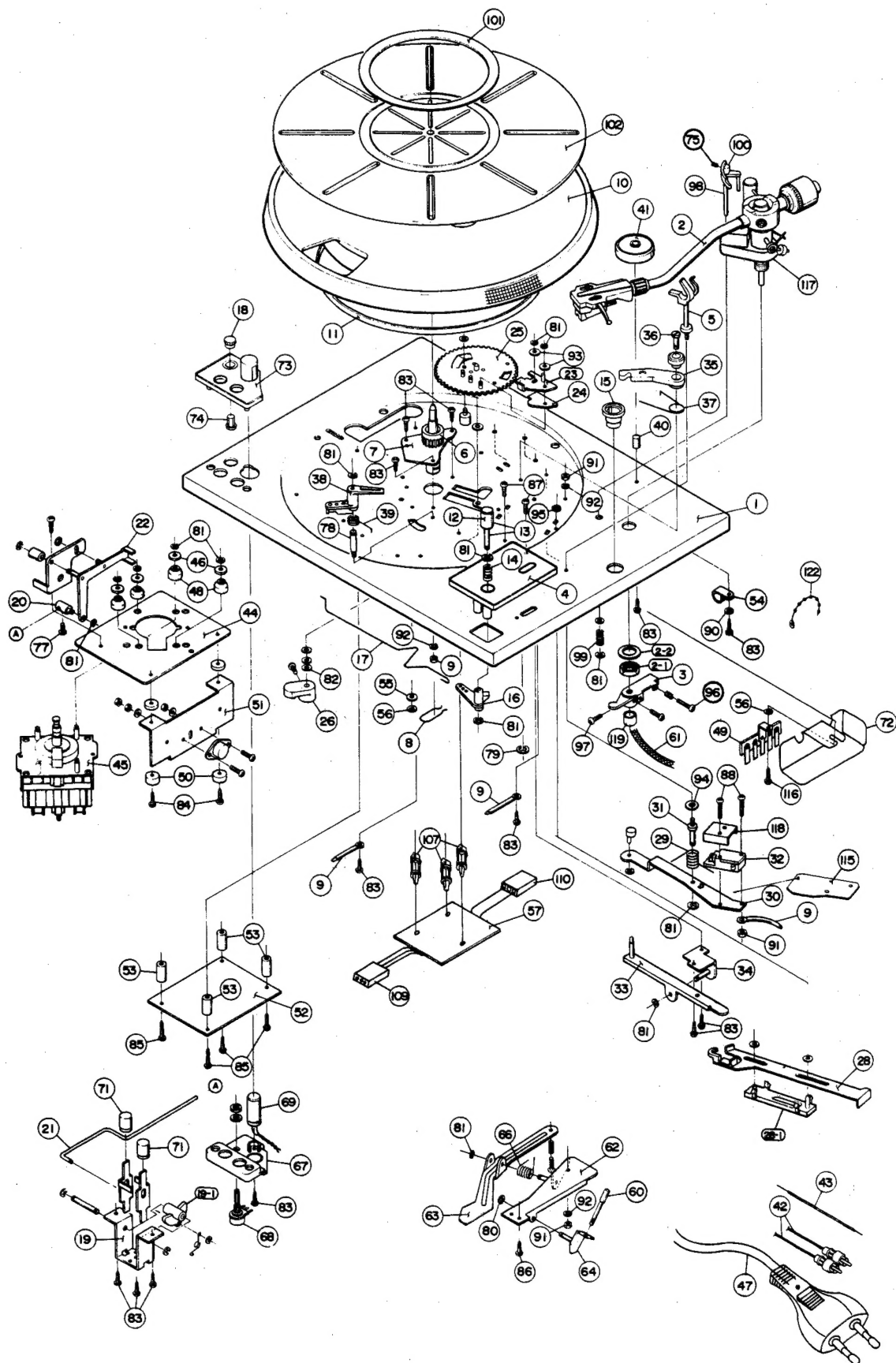
Key No.	Part No.	Description	Q'ty
<b>PACKING</b>			
	131 6 1139 51208	Box Corrugate EXP	1
	131 6 2119 01330	Bag Polyethylene EXP	1
	131 6 2119 01361	Bag Polyethylene EXP	1
	131 6 3009 19521	Pad	1
	131 6 3009 21180	Pad	1
	131 6 6001 01500	Pad Assy	2
	131 6 3009 19660	Pad	1
	131 6 3009 20680	Pad	1
	131 6 2719 10600	Bag Fan	1
	131 6 4119 45405	Explanatory Booklet	1
	134 2 4119 10700	Sub Weight	1
<b>CABINET</b>			
1	131 2 1101 30302	Cabinet	1
2	131 0 2002 14201	Hinge Assy	2
3	131 2 2108 00900	Hinge	2
4	131 2 1105 16001	Plate bottom	1
5	131 2 1107 18900	Lid	1
6	131 2 1301 14400	Badge Sanyo	1
7	131 2 1310 22101	Name Plate	2
9	131 4 2519 23690	Power Trans	1
10	131 2 2904 11900	Pad Lid	2
11	131 2 3101 17701	Metal Mount	4
12	131 2 3608 10200	Cramp Wire	1
13	131 2 3608 10300	Cramp Wire	1

Key No.	Part No.	Description	Q'ty
<b>CABINET</b>			
14	131 2 5205 14900	Cushion	8
	131 2 5205 15000	Cushion	4
15	131 2 6111 14300	Bushing	1
16	131 2 6111 10300	Bushing	1
17	131 2 3101 11901	Metal Mount	1
18	101 3 1103 01001	Screw Pan Hd. 3.0 x 10	4
19	101 3 1204 01005	Screw Flat Hd. 4.0 x 10	4
20	104 3 1103 00002	Nut Hex Hd. 3.0	8
21	106 3 1102 71001	Screw Round Hd. 2.7 x 10	16
22	104 3 1104 00003	Nut Hex. Hd. 4.0	2
23	106 3 1103 11302	Screw Round Hd. 3.1 x 13	6
24	106 3 1103 11301	Screw Round Hd. Wd. 3.1 x 13	7
25	101 3 1104 02003	Screw Pan Hd. 4.0 x 20	6
26	105 3 1204 00001	Washer Spring 4.0	4
27	131 2 4203 84211	Washer Plain 4.2 x 13 x 1.6	4
28	131 2 4203 83202	Washer Plain 3.2 x 10 x 1	8
29	101 3 1103 01602	Screw Pan Hd. 3.0 x 16	2
30	131 2 4203 84208	Washer 4.2 x 10 x 1.0	4
31	4 2369 20550	Power Select Plug	1
32	4 2359 21221	Power Select Socket	1
33	131 2 6113 22100	Shelter	1
34	131 2 4203 15300	Washer	2
35	101 3 1103 00802	Screw Pan Hd. 3.0 x 8	2
36	131 2 6107 21000	Plate Sever	1
37	105 3 1203 00002	Washer Spring 3.0	4

CABINET EXPLODED VIEW



# EXPLODED VIEW



# PARTS LIST

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
TURNTABLE UNIT				TURNTABLE UNIT			
1	134 0 6001 12502	Unite Plate Assy	1	68	4 2229 29005	Variable Resistor 500 ohm B	1
2	4 1579 20840	Pick UP	1	69	4 6129 29003	Neon Lamp	1
	134 0 4001 03702	Tone Arm Assy	1	71	131 0 1001 95003	Knob Assy	2
	4 1579 26710	Cartridge MG-28	1	72	131 2 6103 15000	Cover Shield	1
	4 1579 29230	Pick UP Stylus ST-28	1	73	134 0 1002 10201	Panel Assy	1
	134 2 4201 11304	Screw	2	74	131 2 1601 95007	Knob	1
	134 2 4202 11301	Nut	2	75		Screw 2.6 x 6	1
	134 2 4203 01801	Washer	2	76		Screw Pan Hd. Tapping 2.6 x 8	1
	134 2 1402 10800	Retainer Needle	1	77		Screw Pan Hd. Tapping 3 x 6	1
2-1	134 2 4202 11501	Nut	1	78	134 2 4106 20900	Shaft	1
2-2	134 2 4203 02301	Washer	1	79		E Ring 4mm	1
	134 2 4119 10700	Sub Weight	1	80		E Ring 2mm	1
3	134 0 6012 10500	Arm Inter Lock Assy	1	81		E Ring 3.2mm	14
4	134 0 1005 10601	Cover Rejection Assy	1	82		E Ring 4mm	1
5	134 0 6031 11102	Armrest Assy	1	83		Screw Pan Hd. Tapping 3 x 8	10
6	134 0 5002 10600	Spindle TT Assy	1	84		Screw Pan Hd. Tapping 3 x 12	2
7	134 0 5010 10200	Bearing TT Assy	1	85		Screw Pan Hd. Tapping 3 x 20	4
8	134 2 5101 18500	Spring	1	86		Screw Pan Hd. Tapping 3 x 6	1
9	131 2 3608 10200	Cramp Wire	3	87		Screw Pan Hd. 3 x 5	1
10	134 2 6101 11300	Turntable	1	88		Screw Pan Hd. 3 x 16	2
11	134 2 6302 10200	Belt	1	89		Screw Pan Hd. 4 x 10	3
12	134 0 1001 12200	Knob Assy	1	90		Washer 3.2 x 8 x 0.5	1
13	134 0 1001 12300	Knob Assy	1	91		Nut 3mm	3
14	134 2 5101 25300	Spring	1	92		Spring Washer 3mm	3
15	134 2 4118 16100	Boss	1	93		Washer 4.2 x 12 x 0.8t	2
16	134 2 4120 16300	Lever	1	94		Washer 5 x 10 x 0.2	1
17	134 2 5101 25400	Spring	1	95		CS Ring 3.5φ	1
18	131 2 1601 95008	Decorate Knob	1	96		Screw Pan Hd. 4 x 9	1
19	134 0 5008 10500	Selector Speed Assy	1	97		Screw Pan Hd. 2.6 x 6	2
19-1	134 2 1405 11200	Cam	1	98	134 2 4116 12000	Spindle Lifting	1
20	134 2 4129 10200	Joint	1	99	134 2 5101 25800	Spring	1
21	134 2 4112 11000	Rod	1	100	134 2 3310 10900	Support Arm	1
22	134 0 5008 10600	Selector Speed Assy	1		134 2 6102 13500	Mat Turntable	1
23	134 0 6011 10800	Trip Assy	1		134 2 6103 11200	Plate Decorate TT	1
24	134 2 4122 11900	Trip	1	107		PC Saport	3
25	134 0 6030 11400	Gear Cycling Assy	1	109	131 0 4006 09600	Cord Assy	1
26	134 0 6004 10700	Lever Shut Off Assy	1	110	131 0 4006 09700	Cord Assy	1
28	134 0 6037 11200	Base Assy	1	115	131 2 6106 11700	Sheet Sever	1
28-1	134 2 4121 11300	Guide	1	116		Screw, Pan Hd. 4 x 8	1
29	134 2 5101 25500	Spring	1	117		PU Base	1
30	134 0 6012 10600	Arm Inter Lock Assy	1	118		Switch Cover	1
31	134 2 4106 20700	Shaft	1	119		Tube 5 x 15	1
32	4 2319 21992	Switch Power	1	122	131 2 3608 11300	Cramp Wire	4
33	134 0 6012 10700	Arm Inter Lock Assy	1				
34	134 0 6037 11300	Base Assy	1				
35	134 2 4123 15200	Arm	1				
36	134 2 4106 20800	Shaft	1				
37	134 2 5101 25600	Spring	1				
38	134 2 4120 13800	Lever	1				
39	134 2 5101 18400	Spring	1				
40	134 2 2902 00302	Pin Adaptor EP	1				
41	134 2 2901 10503	Adaptor EP	1				
42	131 0 4004 14100	Wire Shield Assy	1				
43	4 2319 21530	Earth Lead	1				
44	134 2 4108 17500	Plate	1				
45	4 1519 20541	Phono Motor	1				
46		Fiber Washer 4.7 x 13 x 1t	4				
47	4 2439 20521	Power Cord	1				
48	134 2 5202 11100	Cushion	1				
49	4 2379 20440	Lug 4P	1				
50	131 2 6111 95004	Bushing	4				
51	131 2 6201 22300	Plate Heat Sink	1				
52	131 0 4001 95016	Printed Circuit Assy	1				
53	134 2 4208 12300	Spacer	4				
54	131 2 3608 95001	Cramp Wire	2				
57	131 0 4001 95018	Printed Circuit Assy	1				
60	134 0 1001 12400	Rod Assy	1				
61		Weaved Wire 5mm	1				
62	134 0 6029 10700	Angle Mount Assy	1				
63	134 0 6024 10200	Plate Connect Assy	1				
64	134 0 6028 10800	Cam Drive Assy	1				
66	134 2 5101 25700	Spring	1				
67	134 0 6037 11400	Base Assy	1				

Note: Specifications are subject to change without notice for further improvement.

# PARTS LIST

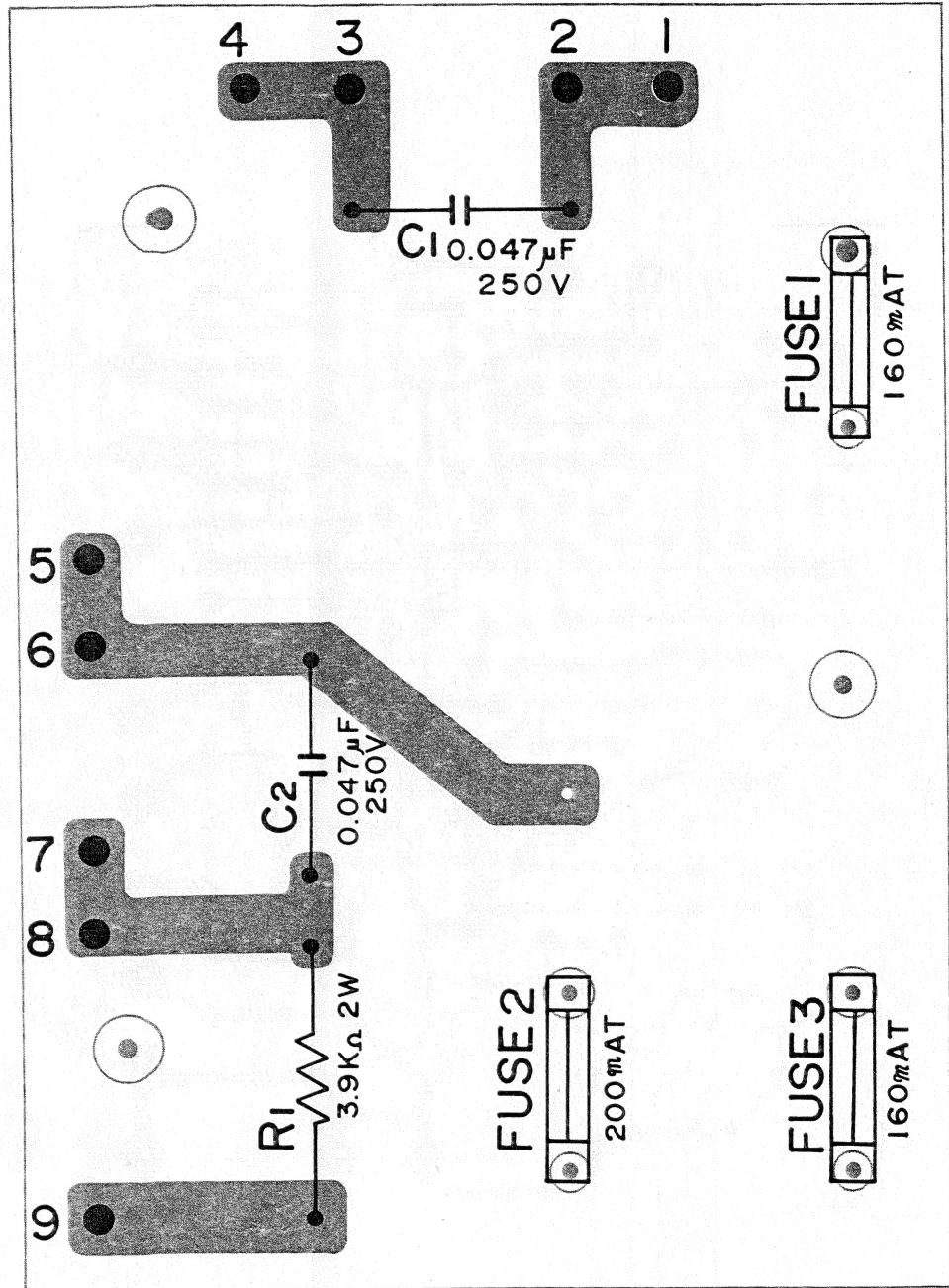
Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty
CONTROL PCB ASSY				POWER PCB ASSY			
	131 0 4001 95016	Control PCB Assy	1		131 0 4001 95018 4 2359 21021	Power PCB Assy (MV) Fuse Holder	1 3
		<b>TRANSISTOR</b>				<b>RESISTOR</b>	
Q301		2SC923	1			3.9K 2W	1
Q302		2SC923	1			<b>CAPACITOR</b>	
Q303		2SC945	1			0.047MF 630WV	2
Q304		2SA733	1				
Q305		2SC1161	1				
Q306		2SD261	1				
Q307		2SC945	1				
		<b>DIODE</b>					
D302		VD 1220	1				
D304		VD 1120	1				
D305		VD 1120	1				
D306		VD 1120	1				
D307		VD 1120	1				
D308		VD 1122	1				
D309		F 14C	1				
D310		RD 7A	1				
D311		VD 1220	1				
D312		F 14C	1				
D313		F 14C	1				
D314		F 14C	1				
D315		F 14C	1				
		<b>RESISTORS</b>					
R322		2.2K 1W ±5%	1				
R301		2.7K 1/4W ±5%	1				
R302		1K 1/4W ±5%	1				
R303		2.7K 1/4W ±5%	1				
R304		1.2K 1/4W ±5%	1				
R305		1.2K 1/4W ±5%	1				
R306		8.2K 1/4W ±5%	1				
R307		1.5K 1/4W ±5%	1				
R308		6.8K 1/4W ±5%	1				
R309		1.8K 1/4W ±5%	1				
R310		2.2K 1/4W ±5%	1				
R311		12K 1/4W ±5%	1				
R312		3.9K 1/4W ±5%	1				
R313		5.6K 1/4W ±5%	1				
R314		560 1/4W ±5%	1				
R315		12K 1/4W ±5%	1				
R316		3.9K 1/4W ±5%	1				
R317		560 1/4W ±5%	1				
R318		1.5K 1/4W ±5%	1				
R319		1.2K 1/4W ±5%	1				
R320		4.7 1/2W ±5%	1				
R323		5.6K 1/4W ±5%	1				
R324		3.9K 1/4W ±5%	1				
R325		12K 1/4W ±5%	1				
R326		680 1/4W ±5%	1				
R327		560 1/4W ±5%	1				
R328		6.8K 1/4W ±5%	1				
R329		6.8K 1/4W ±5%	1				
R330		470K 1/4W ±5%	1				
R331		680 1/4W ±5%	1				
		<b>CAPACITOR</b>					
C301		1MF/16V	1				
C302		2.2MF/16V	1				
C305		10MF/16V	1				
C306		10MF/16V	1				
C307		220MF/50V	1				
C308		22MF/25V	1				
C310		220MF/25V	1				
C303		0.01MF/50V ±10%	1				
C304		0.01MF/50V ±10%	1				
C309		0.01MF/50V ±10%	1				
		<b>BARIABLE RESISTORS</b>					
VR302		1K B type Semi Fixed	1				

1/or resistors must be mult





# WIRING DIAGRAM





# MODIFICATION NOTICE



# SANYO

## STEREO TURNTABLE

Chassis Nos. \_\_\_\_\_  
Serial Nos. \_\_\_\_\_  
Run Nos. \_\_\_\_\_  
Date \_\_\_\_\_

TP 725 UM/SEV/MV

Date Sep. 13, 1976 Issued by M. Mitani

The following corrections should be made in the SERVICE MANUALS and PARTS (PRICE) LIST.

Key No.	Original Cord No.	New Cord No.	Description	Reason
45	4 1519 20541	4 1569 20541	Phono Motor	E
		134 0 4003 00201	Counter weight	Add
		134 0 4003 10402	Head shell	Add

### REASON FOR MODIFICATION

A ..... Standardization  
B ..... Change of materials

C ..... Improvement of reliability  
D ..... Improvement of performance

E ..... Miss Print

SANYO ELECTRIC TRADING CO., LTD.  
OSAKA, JAPAN